

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L22	914	347/37.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 15:17
L23	103	(carriage with station\$3) and L22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 15:17
L24	403	(carriage with move\$4) same (multi direction) and L22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 15:17
L25	395	(carriage with move\$4) same (mulit direction) and L22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 15:17
L26	61	((main with scan\$4) and (sub with scan\$4) with carriage) and L22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/09 15:17
S1	2	jp-11138798-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 14:59
S2	1	1999-168901.NRAN.	DERWENT	OR	OFF	2005/03/22 14:58
S3	1321	347/9-11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 15:00
S4	870	310/317.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 15:00
S5	14417	(ultrasonic ultrasound ultra\$2sonic ultra\$sound (ultra adj (sonic sound))) with temperature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 15:03
S6	5	S3 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 15:03
S7	60703	"347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 15:03

## EAST Search History

S8	83	S5 and S7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 15:03
S9	31718	(ultrasonic ultrasound ultra\$2sonic ultra\$sound (ultra adj (sonic sound))) same temperature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 15:03
S10	6	S3 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 15:03
S11	1321	347/9-11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:17
S12	870	310/317.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:10
S13	60703	"347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:10
S14	25191	(drive with (signal voltage)) same temperature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:13
S15	130	S11 and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:11
S16	12167	(drive with (signal voltage)) with temperature	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:12
S17	90	S11 and S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:12
S18	12237	(drive with (signal voltage)) with (temperature (pre\$3heat))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:12
S19	25300	(drive with (signal voltage)) same (temperature (pre\$3heat))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:18

## EAST Search History

S20	132	S11 and S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:13
S21	63	S20 and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:14
S22	91	S11 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:14
S23	2082	347/5,6,9-11.cds.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:18
S24	4377	(drive with (signal voltage)) same (temperature (pre\$3heat)) same (ink fluid liquid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:19
S25	147	S23 and S24	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:18
S26	1641	(drive near6 (signal voltage)) with (temperature (pre\$3heat)) with (ink fluid liquid)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:20
S27	97	S23 and S26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:19
S28	92	((drive near6 (signal voltage)) with (temperature (pre\$3heat)) with (ink fluid liquid)) same (frequency ultrasonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 07:21
S29	127	((drive with (signal voltage)) with (temperature (pre\$3heat)) with (ink fluid liquid)) same (frequency ultrasonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 11:16
S30	19	S13 and S29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 08:41
S31	5	("5172134"   "5760797"   "5992963"   "6079805"   "6116713").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 07:34
S32	4	("6270180").URPN.	USPAT	OR	OFF	2005/03/23 07:36

## EAST Search History

S33	13233	arakawa.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 08:42
S34	77541	konica.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 11:11
S35	148	S33 and S34	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 08:42
S36	5	S33 and S34 and piezoelectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 08:42
S37	1	1999-168901.NRAN.	DERWENT	OR	OFF	2005/03/23 08:44
S38	5	("5172134"   "5760797"   "5992963"   "6079805"   "6116713").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 09:04
S39	4	("6270180").URPN.	USPAT	OR	OFF	2005/03/23 09:08
S40	1560	ultrasonic with (advantage benefit)	USPAT	OR	OFF	2005/03/23 09:46
S41	17	S13 and S40	USPAT	OR	OFF	2005/03/23 09:08
S42	12092	ultrasonic with (advantage benefit)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 09:47
S43	564	S42 and (heat\$4 with (liquid\$1 or fluid\$1 or ink\$1))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 09:47
S44	17	S43 and S13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 09:47
S45	1	"6503831".pn.	USPAT	OR	OFF	2005/03/23 10:46
S46	0	gb-9803087-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 11:11
S47	8	"9803087"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 11:12
S48	15	("4104645"   "4291316"   "4523199"   "5059266"   "5132248"   "5149548"   "5182571"   "5502585"   "5510066"   "5539100"   "5705826"   "6059393"   "6100954"   "6120588"   "6402403").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 11:15
S49	1542	347/68-72.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/23 11:15

## EAST Search History

S50	2835	347/68-72.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 11:15
S51	0	S29 and S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 11:16
S52	43939	(drive with (signal voltage)) with (frequency ultrasonic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 11:17
S53	80	S50 and S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/23 11:17
S54	5	("5172134"   "5760797"   "5992963"   "6079805"   "6116713").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 14:27
S55	3201	347/5,6,93,95,100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 14:28
S56	2593	347/6,93,95,100.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 14:28
S57	731	347/10,11.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:16
S58	147	347/60.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:17
S59	22138	(pzt piezoelectric piezo\$electric piezo) same (heat\$3 warm\$3 (pre near3 (heat\$3 warm\$3)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:37
S60	118	S57 and S59	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:20
S61	1	S60 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:19

## EAST Search History

S62	2571	((driv\$3 actuat\$3) with (signal input wave)) same ((heat\$3 warm\$3) and (eject\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:26
S63	6581	((ink liquid fluid) near4 heat\$3) same (driv\$3 with (signal frequency control))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:22
S64	75	S57 and S63	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:22
S65	5	S64 and 347/68-72.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:24
S66	2	"6270180".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:24
S67	5	("5172134"   "5760797"   "5992963"   "6079805"   "6116713").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/21 15:24
S68	11315	((driv\$3 actuat\$3) near3 (signal input wave)) same (pzt piezoelectric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:26
S69	519	((heat\$3 warm\$3 (pre\$2heating pre\$2heat pre\$2warming pre\$2warm)) near3 (signal input wave)) same (pzt piezoelectric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:42
S70	0	S69 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:28
S71	7	S69 and S57	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:28
S72	896	310/317.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:31
S73	3	S69 and S72	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:32

## EAST Search History

S74	233042	(pzt piezoelectric piezo\$electric piezo)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:33
S75	30	S58 and S74	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:33
S76	4954167	(heat\$3 warm\$3 (pre near3 (heat\$3 warm\$)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:35
S77	136	S58 and S76	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:35
S78	29	S74 and S77	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:35
S79	2985	347/68-72.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:37
S80	3132	347/60,68-72.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:37
S81	113	S62 and S80	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:38
S82	1837	((heat\$3 warm\$3 (pre\$2heating pre\$2heat pre\$2warming pre\$2warm)) with (signal input wave)) same (pzt piezoelectric)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:42
S83	15	S57 and S82	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:47
S84	2	"6257688".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/21 15:49
S85	0	((("U5-6,257,688") or ("U5-5,861,895") or ("U5-6.714,173") or ("U5-4,633,269") or ("U5-6,695,437") or ("U5-6,575,547") or ("U5-6,530,636") or ("U5-5,805,177")).PN. or (U5-2004/0070651).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/21 15:49

## EAST Search History

S86	17	((("6,257,688") or ("5,861,895") or ("6,714,173") or ("4,633,269") or ("6,695,437") or ("6,575,547") or ("6,530,636") or ("5,805,177")).PN. or (2004/0070651).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/21 15:49
S87	4	("6270180").URPN.	USPAT	OR	ON	2005/10/22 10:02
S88	5	("5172134"   "5760797"   "5992963"   "6079805"   "6116713").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/22 10:14
S89	1	ep-390202-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:24
S90	1	1990-299163.NRAN.	DERWENT	OR	ON	2005/10/22 10:21
S91	2	ep-627313-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:25
S92	1	jp-59133062-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:26
S93	2	jp-08295015-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:29
S94	1	1997-037453.NRAN.	DERWENT	OR	ON	2005/10/22 10:28
S95	2	wo-9735167-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:30
S96	4129	(heat\$3 with generat\$4) same (pzt piezoelectric (lead with zirconate with titinate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:34
S97	2379	(heat\$3 with generat\$4) with (pzt piezoelectric (lead with zirconate with titinate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:33
S98	3132	347/60,68-72.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:33
S99	132	S97 and S98	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:32
S10 0	147	347/60.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:33



## EAST Search History

S10 1	1	S97 and S100	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:33
S10 2	5230	((heat\$3 energy) with generat\$4) with (pzt piezoelectric (lead with zirconate with titinate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:34
S10 3	2	S100 and S102	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:34
S10 4	8408	((heat\$3 energy) with generat\$4) same (pzt piezoelectric (lead with zirconate with titinate))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:38
S10 5	284	S98 and S104	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:34
S10 6	85	S105 and (temperature with ink)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:35
S10 7	2	"4463359".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:36
S10 8	197961	pzt piezoelectric (lead with zirconate with titinate)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:39
S10 9	27	S100 and S108	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/22 10:39
S11 0	2	jp-11138798-\$.dld.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 08:40
S11 1	5337	347/5,6,9-11,60,68-72.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 08:42
S11 2	95	(heat\$3 with driv\$3 with (signal waveform)) same ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:30

## EAST Search History

S11 3	1	S111 and S112	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 08:43
S11 4	889	(heat\$3 same driv\$3 same (signal waveform)) same ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:30
S11 5	643	(heat\$3 with driv\$3 with (signal waveform)) and ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:34
S11 6	15	S111 and S115	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:31
S11 7	12	S111 and S114	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:33
S11 8	277	(heat\$3 with (signal waveform)) same (ultrasonic and temperature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:35
S11 9	1	S111 and S118	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:34
S12 0	1062	(heat\$3 same (signal waveform)) same (ultrasonic and temperature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:35
S12 1	7	S111 and S120	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:35
S12 2	2765	(heat\$3 same (signal waveform)) and (ultrasonic same temperature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:36
S12 3	8	S111 and S122	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:35
S12 4	59	(pre\$3heat\$3 same (signal waveform)) and (ultrasonic same temperature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:38

## EAST Search History

S12 5	1842	(heat\$3 with (ultrasonic)) and ((waveform signal) same temperature)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:38
S12 6	3	S111 and S125	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:41
S12 7	154	347/60.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:42
S12 8	2	S127 and ultrasonic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:41
S12 9	43873	(heat\$3 and driv\$3) with circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:43
S13 0	62	S127 and S129	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/22 09:43
S13 1	5	("5172134"   "5760797"   "5992963"   "6079805"   "6116713").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/05/31 09:58
S13 2	900	347/37.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 09:58
S13 3	2	((x\$2direction and y\$2direction) with motor) and S132	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:00
S13 4	76	((x\$2direction and y\$2direction) with motor).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:00
S13 5	66395	"347"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:00
S13 6	0	S134 and S135	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:00

## EAST Search History

S13 7	182	((x\$2direction and y\$2direction) and motor).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:00
S13 8	3	S135 and S137	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:01
S13 9	111	((main with scan\$4) and (sub with scan\$4)) and S132	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:02
S14 0	93	S139 and carriage	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:02
S14 1	58	((main with scan\$4) and (sub with scan\$4) with carriage) and S132	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:11
S14 2	386	(carriage with move\$4) same (mulit direction) and S132	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:06
S14 3	394	(carriage with move\$4) same (multi direction) and S132	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:07
S14 4	523	(carriage with move\$4) and S132	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:06
S14 5	4	(carriage with move\$4) same (multi with direction) and S132	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:07
S14 6	101	(carriage with station\$3) and S132	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/31 10:11